

AMENDMENT RESPONSIVE TO OFFICE ACTION

Applicant amends the application as follows:

IN THE SPECIFICATION

Applicant amends the Specification as follows:

Please delete page 1 lines 13-17.

Page 16 line 17, insert a "-" before " $\alpha_n$ " in the Second 2-ary Precoder Lookup Table.

Page 21 line 3, change the second "1" to "3" in the  $\alpha_n = [d_n - d_{n-1} + 1]_{\text{mod} 4}$  in the 4-ary Precoder Lookup Table.

Rewritten Tables

Second 2-ary Precoder Lookup Table			
$d_n$	$d_{n-1}$	$\alpha_n = [d_n - d_{n-1} + 1]_{\text{mod} 4}$	$-\alpha_n = [d_n - d_{n-1} + 1]_{\text{mod} 4}$
		n: even	n: odd
-1	-1	+1	-1
-1	+1	-1	+1
+1	-1	-1	+1
+1	+1	+1	-1

1  
2  
3  
4

4-ary Precoder Lookup Table			
$d_n$	$d_{n-1}$	$\alpha_n = [d_n - d_{n-1} + 1]_{\text{mod}8}$	$\alpha_n = [d_n - d_{n-1} + 3]_{\text{mod}8}$
-3	-3	+1	+3
-3	-1	-1	+1
-3	+1	-3	-1
-3	+3	+3	-3
-1	-3	+3	-3
-1	-1	+1	+3
-1	+1	-1	+1
-1	+3	-3	-1
+1	-3	-3	-1
+1	-1	+3	-3
+1	+1	+1	+3
+1	+3	-1	+1
+3	-3	-1	+1
+3	-1	-3	-1
+3	+1	+3	-3
+3	+3	+1	+3

5  
6  
7  
8  
9